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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
09/928,882	08/13/2001	Masaki Katoh	2271/65729	8147
75	90 12/16/2003	•	EXAMI	NER
RICHARD F. JAWORSKI			CHEN, TIANJIE	
Copper & Dunh			ART UNIT	PAPER NUMBER
1185 Avenue of the Americas				
New York, NY	10036		2652	d

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/928,882	KATOH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tianjie Chen	2652				
 The MAILING DATE of this communication appeared for Reply 	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a reply be tir ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. ID (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 22	October 2003.					
2a)⊠ This action is FINAL . 2b)☐ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the corre	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the E Priority under 35 U.S.C. §§ 119 and 120	examiner. Note the attached Office	Action or form PTO-152.				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a lis 13) Acknowledgment is made of a claim for domes since a specific reference was included in the finance of the translation of the foreign language position. 14) Acknowledgment is made of a claim for domes reference was included in the first sentence of the foreign language position.	nts have been received. Into have been received in Applicate ority documents have been received au (PCT Rule 17.2(a)). Into of the certified copies not received the priority under 35 U.S.C. § 1190 arst sentence of the specification of the covisional application has been received priority under 35 U.S.C. §§ 1200 arst sentence of the specification of the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification than the priority under 35 U.S.C. §§ 1200 arst sentence of the specification the specification the priority under 35 U.S.C. §§ 1200 arst sentence of the specification the	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. ceived. and/or 121 since a specific				
Attachment(s)	4) 🔲 Intensions Commons	(PTO-413) Paper No(s)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	Patent Application (PTO-152)				

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Final Rejection

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-4 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Nogami et al (US 5,276,670).

With regard to claim 1, Nogami et al shows a phase-change type optical information recording medium in Fig. 7 including: a transparent substrate 1; a first protective layer 2 on the substrate 1; a recording layer 3 on said first protective layer 2; a second protective layer 4 on said recording layer 3; and a reflective layer 5 on said second protective layer 4, wherein assuming that a minimum recording linear velocity to be V1 (the third from left circle on curve A in Fig. 9), a maximum recording linear velocity to be V2 (the rightmost circle on curve A in Fig. 9), and a degree of modulation at the time of reading out information to be I(V), then a value of I(V2) /I(VI) is within a range from 1 to 1.2 (Fig. 9; column 9, lines 45-56).

With regard to claim 2, Nogami et al further shows a ratio between the maximum recording linear velocity V2 and the minimum recording linear velocity V1 is: $V2/V1 \ge 2.5$.

With regard to claim 3, Nogami et al further shows that the minimum recording linear velocity V1 is 4.8 m/s or more.

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With regard to claim 4, Nogami et al further shows that the maximum recording linear velocity V2 is 12.0 m/s or more.

With regard to claim 8, Nogami et al shows a phase-change type optical information recording medium as described above including at least one recording layer which records information based on crystalline-to-crystalline or crystalline-to-amorphous transition, said phase-change type optical information recording medium being rotated around a center of rotation when recording information in or reading information from said recording layer, wherein when the minimum and maximum linear velocities of rotation are respectively V1 and V2, then a value of a degree of modulation corresponding to the maximum linear velocity I(V2) divided by a degree of modulation corresponding to the maximum linear velocity I(V1) is between 1 and 1.2.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nogami et al (US 5,276,670) in view of Shibakuchi (JP 2000-222776A).

With regard to claim 5-7, Nogami et al shows a phase-change type optical information recording medium as described above, but fail to show the recording layer contains AgInSbTe as a main component with nitrogen added thereto; and the thickness of the recording layer is in a range from 13 nm to 23 nm.

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Shibakuchi shows a phase-change type optical information recording medium, wherein the recording layer contains AgInSbTe as a main component; with nitrogen added thereto ([0054]); and the thickness of the recording layer is 16 nm ([0057]), which is in a range from 13 nm to 23 nm.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to use AgInSbTe with N added and thickness of 16 nm as recording layer in Nogami et al's device as taught by Shibakuchi. The rationale is as follows: Shibakuchi teaches that when using this recording layer the crystallization transition temperature becomes higher, thus obtaining higher thermal stability and the information can be maintained for longer time ([0021]). One of ordinary skill in the art would have been motivated to use the recording layer taught by Shibakuchi in order to obtain better thermal stability and maintain information for longer time.

Response to Arguments

Applicant's arguments filed 10/22/2003 have been fully considered but they 3. are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention. However, it is noted that the features upon which applicant relies (i.e., the features recited above) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is (703) 305-7499. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is (703)746-6037.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Tianjie Chen

Primary Examiner

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